



 WHARFEDALE



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DIAMOND 12

"One of the most successful speaker ranges of all time"

What Hi-Fi?, (2015),

'That was then... Wharfedale Diamond review'. 5th March

Only a Diamond
cuts to the heart of the music

DIAMOND 12 Series

Innovative, High-performance, Whole Home Audio Solution
For Music Lovers Of All Levels

In the early 1980s, Wharfedale created the blueprint for modern 'budget' hi-fi speakers when it made the first-ever DIAMOND. Through successive generations, the Wharfedale DIAMOND has remained the most famous name in budget hi-fi speakers worldwide. The launch of a new DIAMOND range is always a major hi-fi event and this campaign will introduce the latest generation of DIAMOND loudspeakers to the world.

The Wharfedale DIAMOND line is "one of the most successful speaker ranges of all time" (What Hi-Fi? 2015). It's also one of the most enduring – there have been Wharfedale DIAMOND speakers on the market for the past 38 years, updated from one generation to the next.

The all-new DIAMOND 12 Series is the best DIAMOND range yet, developed in collaboration with Karl-Heinz Fink – one of the most successful loudspeaker designers on the planet. Classic DIAMOND price points, industrial design that's cool and contemporary yet still distinctly Wharfedale, and sound that delivers a new 'budget' benchmark through exceptional acoustic design and engineering – the DIAMOND 12 Series is one of the most exciting audio product launches of 2020.



Klarity Affords Focus

New Klarity™ cone material, formulate from a blend of Polypropylene and mica adds stiffness to reduce flexing, enabling a lightweight cone with high rigidity, low colouration and lightning-fast response.

Low Colour & Expression

The Klarity™ cone is fitted with a low-damping surround, thereby achieving both low colouration and expressive dynamics. By simulating many different cone shapes and adding ribs to provide further stiffening, a flat response curve was achieved without resorting to a high-damping surround, thereby striking the ideal balance.

A Magnet Of Forces



A precision-made magnet system with an aluminium compensation ring to minimise the effect of variations in inductance as the voice coil travels. This contributes to an absence of distortion and intermodulation generated by the 'motor system'.

A Voice Coil Beyond This Class

The voice coil is wound on a high-power epoxy/glass fibre bobbin – highly unusual in speakers at this price level. This has the advantage of not adding eddy currents and delivering greater power handling than an aluminium bobbin, whilst also being much stiffer than the Kapton type associated with this price-class.



Diamond Highs



The 25mm dome is made from a woven polyester film with a high-loss coating to deliver open and smoothly extended high frequencies. The magnet system and the front plate have been optimised for wide dispersion and uncompressed behaviour. The front plate is flat and exposes the dome as much as possible; only a very short duct on the front plate balances the acoustic load and improves the SPL (sound pressure level) measurement.

A Crossover Of Style

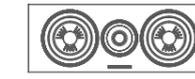
The crossover network uses an acoustic LKR 24dB topology. This includes air core inductors of the type more commonly found in high-end speakers, selected because they produce the lowest distortion of all inductor types. As the resistance of the coil is higher than a standard laminated steel or ferrite core inductor, the magnetic structure of the mid/bass driver has been modified to compensate, resulting in fast, clean bass with no distortion from the inductor.

Brace Oneself

Inside the cabinet, Intelligent Spot Bracing connects opposite walls with a specific form of wood brace to achieve optimal reduction of cabinet resonance. These braces are precisely modelled by computer simulation to improve upon the commonplace 'figure of eight' brace, which may simply transfer resonance from one wall to another.



SPECIFICATIONS



Model	DIAMOND 12.0	DIAMOND 12.1	DIAMOND 12.2	DIAMOND 12.C	DIAMOND 12.3	DIAMOND 12.4
General description	2-way bookshelf speaker	2-way bookshelf speaker	2-way bookshelf speaker	2-way centre speaker	2.5-way floorstanding speaker	2.5-way floorstanding speaker
Enclosure type	bass reflex	bass reflex	bass reflex	closed-box system	bass reflex	bass reflex
Transducer complement	2-way	2-way	2-way	2-way	5"(130mm) advanced PP Cone	6.5"(150mm) advanced PP Cone
Bass driver	4"(100mm) advanced PP Cone	5"(130mm) advanced PP Cone	6.5"(150mm) advanced PP Cone	5"(130mm) advanced PP Cone x2	5"(130mm) advanced PP Cone	6.5"(150mm) advanced PP Cone
Treble driver	1"(25mm) Textile Dome	1"(25mm) Textile Dome	1"(25mm) Textile Dome	1"(25mm) Textile Dome	1"(25mm) Textile Dome	1"(25mm) Textile Dome
AV shield	No	No	No	No	No	No
Sensitivity(2.83V @ 1m)	87dB	88dB	88dB	90dB	89dB	89dB
Recommended amplifier power	20-60W	20-100W	20-120W	20-120W	30-150W	30-200W
Peak SPL	95dB	96dB	96dB	96dB	102dB	102dB
Nominal impedance	8Ω Compatible	8Ω Compatible	8Ω Compatible	8Ω Compatible	8Ω Compatible	8Ω Compatible
Minimum impedance	4.0Ω	4.0Ω	4.0Ω	4.0Ω	5.0Ω	5.0Ω
Frequency response(+/-3dB)	70Hz ~ 20kHz	65Hz~20kHz	50Hz ~ 20kHz	90Hz ~ 20kHz	45Hz ~ 20kHz	40Hz ~ 20kHz
Bass extension(-6dB)	65Hz	60Hz	43Hz	80Hz	40Hz	35Hz
Crossover frequency	2.7kHz	2.6kHz	2.0kHz	2.2kHz	2.2kHz	2.1kHz
Cabinet Volume (in litres)	4.4L	8.2L	11.8L	8.7L	26.6L	40.8L
Dimensions (H x W x D)	265 x 160 x (200+28) mm	312 x 180mm x (250+28) mm	335 x 200 x (285+28) mm	180 x 480 x (180+28) mm	(925+50) x 180 x (320+28) mm	(1100+50) x 200 x (350+28) mm
Net weight	5.1kg/pcs	6.8kg/pcs	8.2kg/pcs	8.5kg/pcs	19.5kg/pcs	22.4kg/pcs



white



light oak



walnut



black